



Sample image

Datasheet

Article number: 70004701

Designation: CA11.A220.PN1

Description: Switch

IEC 60947-3 EN 60947-3, VDE 0660 Teil 107						
Rated insulation voltage Ui						
Voltage (V) AC / DC						
690 AC / DC						
Rated uninterrupted current Iu/Ith						
Current (A)	Ambient temperature (°C)	Peak temperature (°C)	additional requirements			
20	55	60	Ambient temperature +55°C during 24 hours with peaks up to +60°C			
Rated operational current Ie						
Utilization category		Voltage (V)		Current (A)		
AC-15		220 - 240		6		
AC-15		380 - 440		4		
Rated operational power						
Utilization category	Voltage (V)	No. of phases	No. of poles	Power (kW)		
AC-3	220 - 240	3	3	3		
AC-3	380 - 440	3	3	5,50		
AC-3	660 - 690	3	3	5,50		
AC-3	220 - 240	1	2	2,20		
AC-3	380 - 440	1	2	3		
AC-23A	220 - 240	3	3	3,70		
AC-23A	380 - 440	3	3	7,50		
AC-23A	660 - 690	3	3	7,50		
AC-23A	220 - 240	1	2	2,50		
AC-23A	380 - 440	1	2	3,70		
Max Fuse Rating IEC						
Fuse characteristic		No. of Fuses		Current (A)		
gG		1		25		
UL60947-4-1 , UL508						
Nominal Voltage						
Voltage (V) AC / DC						
600 AC						
Rated insulation voltage Ui						
Voltage (V) AC / DC						
600 AC						
Rated thermal current						
Current (A)		Ambient temperature (°C) Additional Text				
20		0 - 40 --				
Horsepower rating						
Across-the-Line Motor Starting		Voltage (V)	No. of phases	No. of poles	Power (HP)	Ambient temperature [°C]
Reversing		110 - 120	1	2	0,17	40
Reversing		220 - 240	1	2	0,50	40
Reversing		277 - 277	1	2	0,60	40
Reversing		415 - 415	1	2	1	40
Reversing		440 - 480	1	2	1,50	40
Reversing		550 - 600	1	2	1,50	40
Reversing		110 - 120	3	3	0,50	40
Reversing		220 - 240	3	3	1	40
Reversing		415 - 415	3	3	2	40
Reversing		440 - 480	3	3	3	40
Reversing		550 - 600	3	3	3	40
DOL		110 - 120	1	2	0,50	40
DOL		220 - 240	1	2	1	40
DOL		277 - 277	1	2	2	40
DOL		440 - 480	1	2	2	40
DOL		550 - 600	1	2	2	40
DOL		110 - 120	3	3	1,50	40
DOL		220 - 240	3	3	3	40
DOL		415 - 415	3	3	5	40
DOL		440 - 480	3	3	5	40
DOL		550 - 600	3	3	5	40

Pilot duty rating code						
<i>Duty Code</i>						
A600						
SCCR / Max. fuse rating						
<i>Conditions of acceptability</i>						
These devices are suitable for use on circuits capable of delivering not more than 5000 rms symmetrical amperes, 600V ac max. when protected by Class RK1 fuses. Manual Motor Controllers when intended for use as a motor disconnect are suitable for use on a circuit capable of delivering not more than 5000 rms symmetrical amperes, 600V ac max. when protected by 30A Class J time delay fuses.						
Temp. rating of wire						
<i>Temperature rating (°C)</i>			<i>Current (A) Text</i>			
60 - 75			– Use copper wire only			
Connecting instructions						
<i>Markings</i>						
When intended for use as a motor disconnect the device shall be provided with a method of being locked in the OFF-position.						
General Use						
<i>AC / DC</i>	<i>Voltage (V)</i>	<i>Current (A)</i>	<i>No. of phases</i>	<i>No. of poles</i>	<i>No. of contacts in series</i>	
AC	600	20	1	2	1	
AC	600	20	3	3	1	
CSA						
Nominal Voltage						
			<i>Voltage (V) AC / DC</i>			
			600 AC			
Rated insulation voltage Ui						
			<i>Voltage (V) AC / DC</i>			
			600 AC			
Rated thermal current						
<i>Current (A)</i>			<i>Ambient temperature (°C)</i>		<i>Additional Text</i>	
20			0 - 40		–	
Horsepower rating						
<i>Across-the-Line Motor Starting</i>	<i>Voltage (V)</i>	<i>No. of phases</i>	<i>No. of poles</i>	<i>Power (HP)</i>	<i>Ambient temperature [°C]</i>	
DOL	110 - 120	1	2	0,50	40	
DOL	220 - 240	1	2	1	40	
DOL	277 - 277	1	2	2	40	
DOL	415 - 415	1	2	2	40	
DOL	440 - 480	1	2	2	40	
DOL	550 - 600	1	2	2	40	
DOL	110 - 120	3	3	1,50	40	
DOL	220 - 240	3	3	3	40	
DOL	415 - 415	3	3	5	40	
DOL	440 - 480	3	3	5	40	
DOL	550 - 600	3	3	5	40	
Pilot duty rating code						
<i>Duty Code</i>						
A600						
Temp. rating of wire						
<i>Temperature rating (°C)</i>			<i>Current (A) Text</i>			
75			– only			
General Use						
<i>AC / DC</i>	<i>Voltage (V)</i>	<i>Current (A)</i>	<i>No. of phases</i>	<i>No. of poles</i>	<i>No. of contacts in series</i>	
AC	600	20	1	1	1	
GENERAL TECHNICAL INFORMATION						
Tightening torque of screws						
			<i>tightening torque (Nm)</i>		<i>tightening torque (lb-in)</i>	
			0,60		5	
Stripping length						
			<i>Length (mm) –</i>			
			8 STRIPPINGLENGTH			
Size of conductor						
<i>composition of conductor</i>	<i>Min. / Max. value</i>	<i>No. of conductor per terminal</i>		<i>Cross section (mm²) or (AWG/kcmil)</i>		<i>Material of the wire</i>
solid wire	Min.	1		0.5mm²		Copper
solid wire	Min.	2		0.5mm²		Copper
flexible wire	Min.	1		0.75mm²		Copper
flexible wire	Min.	2		0.75mm²		Copper
flexible wire	Max.	2		2.5mm²		Copper
flexible wire	Max.	2		AWG 14		Copper
Single-core or stranded wire	Max.	2		AWG 12		Copper
Single-core or stranded wire	Max.	2		2.5mm²		Copper
flexible wire with ferrule according to DIN 46228	Min.	1		0.5mm²		Copper
flexible wire with ferrule according to DIN 46228	Max.	2		2.5mm²		Copper
flexible wire with ferrule according to DIN 46228	Min.	2		0.5mm²		Copper
Approbations						
<i>Specification</i>					<i>Marking</i>	
EAC						
CE marking						

Approbations	
Specification	Marking

UK Directives

UK
CA

CSA C.22.2 No.14

CSA®

Recommended screw driver

Type of screw driver	Value
Cross Screwdriver	PH1
Slot screwdriver according to DIN 5264	0,8x4

General Information

Text

- Do not lubricate or treat contacts.
- Switches may only be mounted, connected and set into operation by qualified persons according to the accepted rules of technology.
- Use copper wire only. Do not coat the wire end with tin.
- Terminals with factory fitted jumper links are tightened during production. Take care during installation to ensure factory fitted links are not lost by undoing both sides of linked terminals. After wiring, all terminal screws must be tightened to recommended torque specifications.
- After installation of the switches the spacings between the terminals must be sufficient to fulfill the requirement of the applicable standards.

Waste Electrical & Electronic Equipment (WEEE)

Picture name	Description
	Do not throw in the trash as care must be taken to ensure environmentally sound disposal and recycling. Please either use an environmentally friendly waste disposal company; return to the supplier for disposal; or return direct to the manufacturer, Kraus & Naimer. You can find local Kraus & Naimer offices at www.krausnaimer.com

Proposition 65

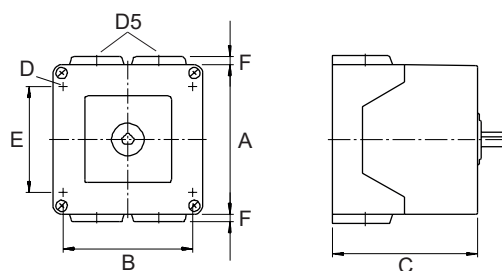
Picture name	Description
	WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov .

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

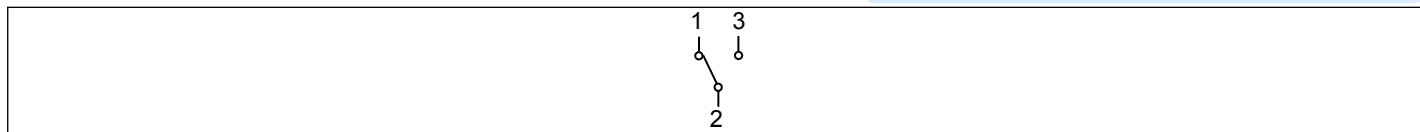
Mounting-PN1



IP - Code front side	IP42
Stages	1,00 - 2,00
A	□ 82,00 mm
B	H 68,00 mm
C	H 59,70 mm
D	Ø 4,40 mm
D5	Ø 4,00 x M20
E	H 52,00 mm
F	H 5,00 mm

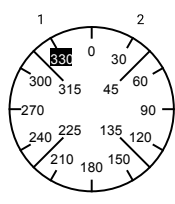
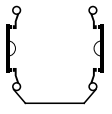
Wiring diagram

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Switch program

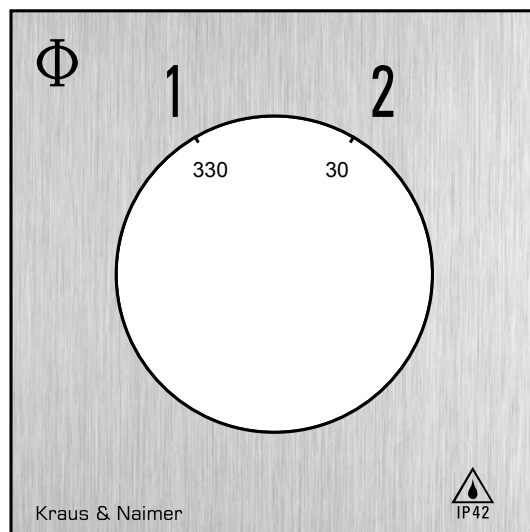
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 Kraus & Naimer		Page 1 of 1											
		CA11				A220							
Face Plate													
		1	3	5	7	9	11	13	15	17	19	21	23
													
Switching Angle 60 Total switching Angle 60		2	4	6	8	10	12	14	16	18	20	22	24
1		330											
		345											
		0											
		15											
2		30											
		45											
		60											
		75											
		90											
		105											
		120											
		135											
		150											
		165											
		180											
		195											
		210											
		225											
		240											
		255											
		270											
		285											
		300											
		315											

Version: 106

Face plate

S1.F072/A10.PNL



HANDLES

Designation: S1B.G257

Handle colour: "7" electro grey

